



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/697,910	10/30/2003	Cheng Chung Wang	10111392	9638
34283	7590	12/02/2005	EXAMINER	
QUINTERO LAW OFFICE 1617 BROADWAY, 3RD FLOOR SANTA MONICA, CA 90404			HEWITT, JAMES M	
			ART UNIT	PAPER NUMBER
			3679	

DATE MAILED: 12/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/697,910	WANG, CHENG CHUNG	
	Examiner	Art Unit	
	James M. Hewitt	3679	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 5/27/05 & 9/7/05.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-23 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-5,7-9,11,12 and 17-21 is/are rejected.
 7) Claim(s) 6,10,13-16,22 and 23 is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date 5/27/05.
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Horvath et al (US 4,707,027).

With respect to claims 1 and 17, Horvath et al discloses an inflatable product, including: a first chamber (8); a first valve (16); an air pump (14) for inflating the first chamber through the first valve; a first switch (22/28) for activating the air pump and opening the first valve; and a switch circuit (see Figures 2 and 3) through which the air pump is activated by the first switch, wherein the switch circuit has a second switch (26) turned on by the first switch when the first switch is turned on, and a relay (30 or 32) activated to supply the air pump with power when the second switch is turned on (see column 3 lines 4-40).

It should be noted that contacts 26 and 28, given the broadest reasonable interpretation, are considered switches. Refer to the following definition of "switch":

switch (swîch) noun

5. *Abbr. sw.* A device used to break or open an electric circuit or to divert current from one conductor to another.¹

With respect to claim 3, further comprising a second chamber (10); a second valve (18) through which the air pump inflates the second chamber; and a third switch (24/first contact of switch 24) to activate the air pump and open the second valve, wherein the switch circuit has a fourth switch (second contact) turned on by the third switch when the third switch is turned on, and the relay is activated to supply the air pump with power when the fourth switch is turned on (see column 3 lines 4-40).

Note that the first and second valves have been interpreted as "mechanically-controlled" since a mechanical action is required for their activation.

Claims 5, 7-9, 11-12 and 18-21 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Horvath et al (US 4,707,027).

As described above in the rejections of claims 1 and 3, Horvath et al discloses substantially all of the limitations of claims 5, 7-9 and 11-12. Further, Horvath et al discloses a pack body, as shown in Figure 1. While it is foreseen that the first, second, third and fourth switches are disposed in/on this pack body and the first and second valves are disposed in this pack body, this is not explicitly disclosed. Nevertheless, from standard engineering knowledge and skill, it would have been within the purview of

¹ *The American Heritage® Dictionary of the English Language, Third Edition* copyright © 1992 by Houghton Mifflin Company. Electronic version licensed from INSO Corporation; further reproduction and distribution restricted in accordance with the Copyright Law of the United States. All rights reserved.

Art Unit: 3679

and obvious to one having ordinary skill in the art at the time the invention was made to incorporate the first through fourth switches in/on the pack body.

Note that the first and second valves have been interpreted as "mechanically-controlled" since a mechanical action is required for their activation.

Regarding claims 18 and 19, the first pack body is connected (e.g. via wires, tubing) to the first chamber.

Regarding claims 20 and 21, the first pack body is connected (e.g. via wires, tubing) to the second chamber.

Allowable Subject Matter

Claims 6, 10, 13-16 and 22-23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments filed 9/7/05 have been fully considered but they are not persuasive.

Applicant asserts that Horvath's first and second valves are not mechanically-controlled. The Examiner disagrees. Although Horvath's valves are solenoid valves, because the switches that control the valves must be physically displaced in order to activate the valves, the valves are considered mechanically-controlled.

Applicant's arguments with respect to the double patenting rejection of claims 1-4 are persuasive and thus these rejections have been withdrawn.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

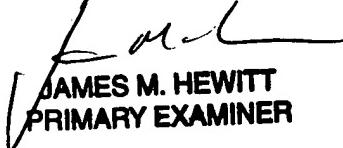
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M. Hewitt whose telephone number is 571-272-7084.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Stodola can be reached on 571-272-7087. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3679

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



JAMES M. HEWITT
PRIMARY EXAMINER